



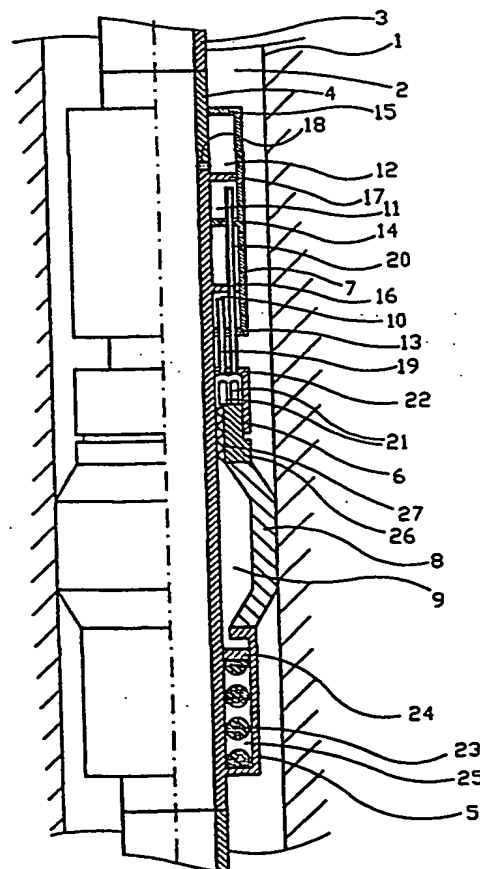
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(21) International Application Number: PCT/NO99/00366 (22) International Filing Date: 6 December 1999 (06.12.99) (30) Priority Data: 19985798 10 December 1998 (10.12.98) NO (71) Applicant (for all designated States except US): RESLINK AS [NO/NO]; Kongsgata 21, N-4330 Ålgård (NO). (72) Inventors; and (75) Inventors/Applicants (for US only): KVERNSTUEN, Ole, Sv. [NO/NO]; Strondlia 4, N-4329 Sandnes (NO). MOEN, Terje [NO/NO]; Diamantveien 36 A, N-4318 Sandnes (NO). (74) Agents: HÅMSØ, Eivind et al.; Håmsø Patentbyrå ANS, Box 171, N-4302 Sandnes (NO).		(81) Designated States: AE, AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), DM, EE, EE (Utility model), ES, FI, FI (Utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments. In English translation (filed in Norwegian).	

(54) Title: DEVICE BY TOOLS FOR SETTING OF A PRODUCTION PACKER

(57) Abstract

The invention relates to a device by a tool for the setting of an inflatable packer within an annulus (2) between a pipe string (3) and a borehole wall (1) of a production well for hydrocarbons. The main object of the invention is that a packer element (8) arranged thereto shall be inflated by means of, e.g., a two-component thermosetting plastic, and that this is to take place by a more moderate pressure than what has been normal. This is realised in the way that the tool comprises a sleeve element (4), three housing elements (5, 6, 7) positioned externally on the sleeve element (4), and a packer element (8) extending between two of the housing elements (5, 6). The third housing element (7) is arranged so, that the thermosetting plastic is transferred from the housing element (7) to an annular chamber (9) of the tool between the sleeve element (4) and the packer element (8), so that the packer element (8) is inflated into sealing abutment against the bore wall (1) of the well, when, e.g., well fluid from the pipe string (3) is supplied to the housing element (7) at the same time. By the configuration of the third housing element (7) with more chambers (10, 11) for thermosetting plastic than chambers (12) for the well fluid from the pipe string (3), the packer element (8) is inflated at a pressure which is lower than the pressure from the well fluid supplied to the housing element (7).



1

INTERNATIONAL SEARCH REPORT

International application No.
PCT/NO 99/00366

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: E21B 33/127, E21B 23/06
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPODOC, WPI

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3575238 A (H.E. SHILLANDER), 20 April 1971 (20.04.71)	1-16
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A	US 3750750 A (H.J. URBANOSKY), 7 August 1973 (07.08.73)	1-16
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A	GB 1159534 A (MINERALIMPEX), 30 July 1969 (30.07.69)	1-16
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A	GB 2300015 A (BAKER HUGHES INCORPORATED), 23 October 1996 (23.10.96)	1-16
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☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

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| <ul style="list-style-type: none"> * Special categories of cited documents "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed | <ul style="list-style-type: none"> "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family |
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Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT
Information on patent family members

02/12/99

International application No.
PCT/NO 99/00366

Patent document cited in search report			Publication date	Patent family member(s)	Publication date
US	3575238	A	20/04/71	NONE	
US	3750750	A	07/08/73	NONE	
GB	1159534	A	30/07/69	NONE	
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